Application No.: 10/507,041

Response to Office Action of July 24, 2006

Attorney Docket: NOTAR-010US

Amendments to the Claims:

- 1. (Previously Presented) A ceramic colorant in the form of a suspension, the colorant comprising particles of colorant having nanometric dimensions in which the solvent of the suspension is a high-boiling alcohol selected from the group consisting of diethylene glycol, ethylene glycol, and polyethylene glycol, and wherein the suspension includes an appropriate amount of water to facilitate hydrolysis.
- 2. (Previously Presented) The ceramic colorant according to Claim 1, in which the particles have diameters of between 5 nm and 600 nm.
 - 3. (Cancelled)
- 4. (Previously Presented) The colorant according to Claim 1, in which the nanometric particles are chosen in the group consisting of:

 $M^{II}M^{III}{}_{2}O_{4}$, where M^{II} is chosen in the group consisting of Fe^{II} , Zn, Co, Ni, Mn, and M^{III} is chosen in the group consisting of Fe^{III} , Al, Cr, Mn, $CoAl_{2}O_{4}$, $TiSbO_{2}$, $TiCrO_{2}$, $ZrSiO_{4}$, $PrSiO_{4}$, $ZrSiO_{4}$, $VSiO_{4}$, $(AlCr)_{2}O_{3}$, $AlMO_{3}$ (where M=Y, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb), $CrMO_{3}$ (where M=Y, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb), $CaSn_{1-x}Cr_{x}SiO_{5}$, $TiSbO_{2}$, $TiNiO_{2}$, ZrO_{2} , VO_{2} , SnO_{2} , VO_{2} , $Sn_{1-x}Cr_{x}O_{3-x/2}$ (where x is comprised between 0.01 and 0.1), Au^{0} , Ag^{0} , Cu^{0} .

5. (Withdrawn) A process for the preparation of ceramic colorants, the process comprising the steps of:

adding salts of desired metals to a known volume of alcohol to form a solution;

heating under stirring the solution to complete solubilization of the salts; adding an appropriate amount of water for facilitating hydrolysis of the salts; heating the solution to a temperature higher than 150°C for furthering the

hydrolysis and to form a suspension;

cooling the suspension to room temperature once the hydrolysis reaction is completed;

utilizing one of dialysis and ultrafiltration to perform at least one of eliminating the salts and replacing the solvent;

centrifuging the suspension to form a precipitate.

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6. (Withdrawn) The process of Claim 5 further including the steps of: adding reagents (solutions of salts of metals) to a polar solvent previously brought to the desired temperature of hydrolysis;

bringing the suspension to room temperature; and dehydrating the reaction environment with dehydrating agents.

7. (Withdrawn) The process of Claim 5 further including the steps of:
dissolving the salts are in the high-boiling alcohol at an adequate temperature;
adding an unmixable solvent to the high-boiling alcohol to form an emulsion
of micelles of nanometric dimensions;

adding an appropriate amount of water to the suspension under stirring to facilitate hydrolysis, allowing it to react at a temperature higher than 120°C; and cooling the suspension to room temperature.

- 8. (Canceled)
- 9. (Canceled)
- 10. (Canceled)
- 11. (Canceled)
- 12. (Withdrawn) The process of Claim 5 further including the step of collecting and drying the precipitate to obtain the colorant in the form of a powder.
- 13. (Currently Amended) The A colorant prepared by the process of Claim 12 wherein the colorant is in the form of powder, wherein such colorant is prepared by:

adding salts of desired metals to a known volume of alcohol to form a solution;

heating under stirring the solution to complete solubilization of the salts;

adding an appropriate amount of water for facilitating hydrolysis of the salts;

heating the solution to a temperature higher than 150°C for furthering the hydrolysis and to form a suspension;

cooling the suspension to room temperature once the hydrolysis reaction is completed;

utilizing one of dialysis and ultrafiltration to perform at least one of eliminating the salts and replacing the solvent;

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centrifuging the suspension to form a precipitate; and collecting and drying the precipitate to obtain the colorant in the form of a powder.